

# PBC SERIES BATTERY TO BATTERY CHARGER WITH SOLAR CHARGER



## ■ Features:

- ▶ Adjustable charge current:10A/15A/20A/25A/30A/35A/40A
- ▶ Dual Input: solar panels (up to 600W) or vehicle' s alternator to charge auxiliary battery.
- ▶ Multi-Stage Charging: standby, pre-charge, constant current charging, constant voltage charging, full charge and re-charge.
- ▶ Multi Battery Selection: compatible with Lead Acid, AGM, Gel, calcium, Li-ion batteries.
- ▶ Built-In Solar Regulator with maximum VOC 45Vdc
- ▶ Multiple Protection: over-charge, short circuit, over-temperature, thermal load, solar input overload, input/output reverse polarity protection.
- ▶ Internal Temperature Monitoring
- ▶ User-Friendly LCD Display Design

Battery Input					
Battery input (start battery/DC generator)					
Input voltage	12.5-15.8VDC				
Input low voltage shutdown	factory default is 11.7V, adjustable range11.5V~12.5V (wait for 5sec, the product continues to work if the voltage is higher than 11.7V, if still lower than 11.7V, stop working. directly shutdown if lower than 11V)				
Input low voltage recovery	≥12.8VDC (adjustable range 12.5V~13.5V with 10sec delay)				
Input overvoltage shutdown	≥15.8VDC				
Input overvoltage recovery	≤15VDC				
Solar Input					
Input voltage	15-45V (open circuit voltage of solar panel)				
Input low voltage shutdown	≤15VDC				
Input low voltage recovery	≥15.5VDC				
Input overvoltage shutdown	≥45VDC				
Input overvoltage recovery	≤44VDC				
Solar panel wattage	540W Max				
Output					
Output voltage	12VDC (nominal voltage)				
Output current	40A Max (10A/15A/20A/25A/30A/35A/40A adjustable)				
Battery type	GEL	AGM	WET	Lithium	Program (custom settings)
Constant voltage range	14.2VDC	14.6VDC	14.4VDC	14.4VDC (12.6-14.8V Manually adjustable)	14: LiFePO4: 12.6V~14.8V, 5: Custom program: 13.8V~14.8V
Floating voltage range	13.8VDC	13.8VDC	13.5VDC	N/A	4: LiFePO4:0V=OFF or 13.0V~14.8V, 5: Custom program: 13.8VDC (13v~14V Manually adjustable)
Charge current	10/15/20/25/30/35/40 (optional setup on LCD panel)				
Charge mode	Three-stage type				
standby loss	≤50mA				
Efficiency	Max.90%				
Other					
Over-temperature protection	shuts down when the internal temperature >65°C, and resumes charging when <55°C				
BTS	shuts down to protect the battery when the battery temperature > 60°C, and resumes charging when the battery temperature <50°C				
	Temperature compensation coefficient -3mV/°C				
Product Size	L*W*H=221.7*164.2*74mm				

